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L12	2	6,327,553.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	178	injection molding with simulat$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	891	injection molding with model$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	1044	1 or 2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

L5	29	3 and (model$ with three-dimensional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	15	1 and (three-dimensional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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L2	10	6,096,088.pn. or 5,581,468.pn. or 5,572,434.pn. or 5,811,133.pn. or 5,835,379.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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US 20020118229	A1	Information processing apparatus and method	20020829	345/771	
US 20020088600	A1	Tool and process for casting a shaped part for the production of a turbine blade	20020711	164/137	
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US 6554882	B1	Rapid tooling sintering method and compositions therefor	20030429	75/228	
US 6532299	B1	System and method for mapping a surface	20030311	382/128	
US 6516241	B1	Method for gauging a mold cavity for injection molding	20030204	700/200	
US 6471520	B1	Model of complex structure and method of making the same	20021029	434/278	
US 6450393	B1	Multiple-material prototyping by ultrasonic adhesion	20020917	228/110.1	
US 6405095	B1	Rapid prototyping and tooling system	20020611	700/118	
US 6201508	B1	Injection-molded phased array antenna system	20010313	343/778	
US 6161057	A	Apparatus for analyzing a process of fluid flow, and a production method of an injection molde	20001212	700/197	
US 6048954	A	Binder compositions for laser sintering processes	20000411	526/328.5	
US 5947745	A	Atomic model of simultaneous electron-pair-sharing and allosterism	19990907	434/278	
US 5897592	A	Implantable articles with as-cast macrotextured surface regions and method of manufacturing	19990427	128/898	
US 5835379	A	Apparatus and method for analyzing a process of fluid flow, an apparatus and method for anal	19981110	700/197	
US 5687788	A	Implantable articles with as-cast macrotextured surface regions and method of manufacturing	19971118	164/456	
US 5658334	A	Implantable articles with as-cast macrotextured surface regions and method of manufacturing	19970819	128/898	
US 5137800	A	Production of three dimensional bodies by photopolymerization	19920811	430/281.1	
US 5097432	A	Evaluation method of flow analysis on molding of a molten material	19920317	703/9	
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US 5071597 A	Plastic molding of articles including a hologram or other microstructure	19911210	264/1.34
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JP 2000006219 A	INJECTION MOLDING PROCESS SIMULATION SYSTEM	20000111	
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JP 08099341 A	DEVICE AND METHOD FOR ANALYSIS OF FLUID FLOWING PROCESS, DEVICE AND ME	19960416	
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2 **Multiobjective optimization of a plastic injection molding process**
Seaman, C.M.; Desrochers, A.A.; List, G.F.;
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[Abstract]   [PDF Full-Text (1012 KB)] **IEEE JNL**

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4 **Time-d main m deling of comp site arrays f r underwater imaging**

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5 Nonlinear control of an electrohydraulic injection molding machine via iterative learning

Havlicsek, H.; Alleyne, A.;
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Volume: 1 , 2-4 June 1999
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9 Mechatr nic micr devices

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[Abstract]   [PDF Full-Text (1724 KB)] **IEEE CNF**

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11 **Teaching the manufacturing design cycle in a project
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13 **Linear motor for ejector mechanism**
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14 **P siti n c ntr l f a plastic injecti n m ulding machine via
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15 Using the computer as a tool in engineering technology programs

Kitto, K.L.;
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2 **Molded circuit interconnects: electronic packaging in the third dimension**
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2 **Shrinkage predictions of injection moulded parts in semi-crystalline polymers: experimental verification**
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16 **A virtual prototyping approach to mold design**
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17 **Design method of an intelligent oil-hydraulic system (load
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Proceedings of the 33nd conference on Winter simulation December 2001

Simulation technology holds tremendous promise for reducing costs, improving quality, and shortening the time-to-market for manufactured goods. Unfortunately, this technology still remains largely underutilized by industry today. This paper suggests benefits to industry resulting from the widespread, pervasive implementation of manufacturing simulation technology. Potential simulation impact areas are closely intertwined with strategic manufacturing. Yet, a number of factors currently inhibit th ...

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Qiang Ji , Michael M. Marefat

ACM Computing Surveys (CSUR) September 1997

Volume 29 Issue 3

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

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I. C. You , C. N. Chu , R. L. Kashyap

Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1990

A formalism for symbolic representation of three-dimensional model and its use for knowledge representation and control structure are presented. A robust feature-based design (RFBD) approach has been developed to represent three dimensional objects and to provide meaningful geometric and topological properties for manufacturability evaluation. For knowledge acquisition, binary syntactic primitive pairs have been established for high level symbolic reasoning. Symbolic reasoning tables provid ...

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Malay Kumar , Satyandra K. Gupta
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Marius V. A. H?ncu , Kenneth C. Smith
Proceedings of the 1986 ACM fourteenth annual conference on Computer science February
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Malay Kumar , Satyandra K. Gupta
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Communications of the ACM April 1996
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4 On the use of GPSS to model hierarchical control systems in a manufacturing environment   83%
Ronald J. Degen , Thomas J. Schriber
Proceedings of the 76 Bicentennial conference on Winter simulation December 1976
The concept of hierarchical, multilevel control systems is reviewed in the context of

manufacturing systems, and the strata typically composing such control systems are discussed. The possibility of building simulation models of hierarchical systems, using FORTRAN routines to represent the higher-level strata, and GPSS to model the actual manufacturing steps themselves, is introduced. A hypothetical, nine-product toy-manufacturing system is described, and some of the specific features of a ...

5   Coherent network interfaces for fine-grain communication   83%
Shubhendu S. Mukherjee , Babak Falsafi , Mark D. Hill , David A. Wood
ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture May 1996
Volume 24 Issue 2
Historically, processor accesses to memory-mapped device registers have been marked uncachable to insure their visibility to the device. The ubiquity of snooping cache coherence, however, makes it possible for processors and devices to interact with cachable, coherent memory operations. Using coherence can improve performance by facilitating burst transfers of whole cache blocks and reducing control overheads (e.g., for polling).This paper begins an exploration of network interfaces (NIs) that u ...

6   Decoupled hardware support for distributed shared memory   83%
Steven K. Reinhardt , Robert W. Pfile , David A. Wood
ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture May 1996
Volume 24 Issue 2
This paper investigates hardware support for fine-grain distributed shared memory (DSM) in networks of workstations. To reduce design time and implementation cost relative to dedicated DSM systems, we decouple the functional hardware components of DSM support, allowing greater use of off-the-shelf devices.We present two decoupled systems, Typhoon-0 and Typhoon-1. Typhoon-0 uses an off-the-shelf protocol processor and network interface; a custom access control device is the only DSM-specific hard ...

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Christian S. Mata , Joseph S. B. Mitchell
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J. F. Traub
Communications of the ACM June 1981
Volume 24 Issue 6
A panel discussion was held during the third biennial meeting of chairmen of Ph.D.-granting computer science departments in June, 1978 at Snowbird, Utah, a meeting sponsored by the Computer Science Board. Invitees from industry and government were also present. A report was prepared from tapes made of the discussion (Department of Computer Science, Carnegie-Mellon University: Report #CMU-CS-80-127, June 1980). It contained all the prepared statements of the panelists, lightly edited, and th ...

9   On the status of design automation in canada   80%
W. M. vanCleemput , R. F. Allum , J. G. Linders
Proceedings of the 12th design automation conference January 1975

An important characteristic of Canadian industry is that it is largely foreign-dominated. A result of this is that many products, that are manufactured in Canada, are designed elsewhere. Furthermore, since the development of design automation techniques and systems usually affects the whole corporation, this development is almost always done in the country in which its headquarters is established. As an example, consider the computer industry: although some major computer manufacturers have ...

10 A diagnostic expert system for analyzing multiple-failure transients in nuclear power plants   80%
Robert P. Martin , B. Nassersharif
Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1988
CATALISP (Computer Aided Transient Analysis coded in Lisp) is a prototype expert system which is the result of a project investigating and implementing event confidence-levels (used by reactor safety experts in reactor transient analysis) in the form of an expert system. Currently, CATALISP is designed to diagnose reactor transients by analyzing simulated sensor and plant thermal hydraulic information from a system simulation. CATALISP uses a knowledge base of existing emergency nuclear pla ...

11 Maniplicons in ThinkerToy   80%
Steven H. Gutfreund
ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications December 1987
Volume 22 Issue 12
ThinkerToy is a graphical environment for modeling decision support problems. It provides a tableau on which such problems as landscape planning, service scheduling, and statistical analysis can be modeled and analyzed. Normally, complex mathematical and statistical modeling techniques are needed to perform meaningful analysis. ThinkerToy uses graphical icons with concrete physical properties to replace mathematical relationships and properties. The key construct in this methodology is the ...

12 Exploiting the map metaphor in a tool for software evolution   80%
William G. Griswold , Jimmy J. Yuan , Yoshikiyo Kato
Proceedings of the 23rd international conference on Software engineering July 2001

Software maintenance and evolution are the dominant activities in the software lifecycle. Modularization can separate design decisions and allow them to be independently evolved, but modularization often breaks down and complicated global changes are required. Tool support can reduce the costs of these unfortunate changes, but current tools are limited in their ability to manage information for large-scale software evolution. In this paper we argue that the map metaphor can serve as an org ...

13 The SNAP-1 parallel AI prototype   80%
R. F. DeMara , D. I. Moldovan
ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international symposium on Computer architecture April 1991
Volume 19 Issue 3

14 A methodology for tuning and verifying package simulation models   77%

David C. Efron
Proceedings of the 1975 symposium on Simulation of computer systems August 1975
The computer system simulation packages are generally regarded as being capable of producing viable performance projections quickly and cheaply relative to the time and cost of programming unique simulation models. Many users also recognize that simulation models cast in the prescribed molds of the packages may be subject to various errors. They will therefore consider all results as coarse indications of expected performance levels. In contrast, this paper demonstrates how the p ...

15 An integrated analytical system for global range planning   77%
T. E. Williamson
Proceedings of the 1967 22nd national conference January 1967
The mental image formed upon the first attempt to focus on a problem of the scope involved in systematizing the planning and scheduling functions of a space vehicle tracking range is truly overwhelming (Figure 1). Further investigation, however, while not diminishing the elephantine proportions of the problem, reveals considerable detail of importance. First, there was already at hand at the Air Force Eastern Test Range specific ADP capabilities that could be used almost directly ...

16 The future of optical fibers for data communications   77%
Tingye Li
Proceedings of the fifth data communications symposium September 1977
Optical-fiber transmission lines appear attractive for a variety of communication applications in which twisted copper pairs and coaxial cables are now used. These applications range from on-premises data links and equipment wiring to interoffice and intercity telecommunications trunks. Experiments to explore the technical feasibility of glass fibers in these areas are presently in progress. This talk summarizes the current state of research on optical fibers, fiberguide cables and ...

17 Fast detection of communication patterns in distributed executions   77%
Thomas Kunz , Michiel F. H. Seuren
Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997
Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

18 Stride prefetching by dynamically inspecting objects   77%
Tatsushi Inagaki , Tamiya Onodera , Hideaki Komatsu , Toshio Nakatani
ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation June 2003
Volume 38 Issue 5
Software prefetching is a promising technique to hide cache miss latencies, but it remains challenging to effectively prefetch pointer-based data structures because obtaining the memory address to be prefetched requires pointer dereferences. The recently proposed stride prefetching

overcomes this problem, but it only exploits *inter-iteration* stride patterns and relies on an off-line profiling method.We propose a new algorithm for stride prefetching which is intended for use in a dynamic ...

19 New techniques for ray tracing procedurally defined objects 77%

James T. Kajiya

Proceedings of the 10th annual conference on Computer graphics and interactive techniques
July 1983

We present new algorithms for efficient ray tracing of three procedurally defined objects: fractal surfaces, prisms, and surfaces of revolution. The fractal surface algorithm performs recursive subdivision adaptively. Subsurfaces which cannot intersect a given ray are culled from further consideration. The prism algorithm transforms the three dimensional ray-surface intersection problem into a two dimensional ray-curve intersection problem, which is solved by the method of strip trees. The ...

20 The architecture and programming of the Ametek series 2010 multicomputer 77%

C. L. Seitz , W. C. Athas , C. M. Flaig , A. J. Martin , J. Seizovic , C. S. Steele , W-K. Su
Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1 January 1988
During the period following the completion of the Cosmic Cube experiment [1], and while commercial descendants of this first-generation multicomputer (message-passing concurrent computer) were spreading through a community that includes many of the attendees of this conference, members of our research group were developing a set of ideas about the physical design and programming for the second generation of medium-grain multicomputers. Our principal goal was to improve by as much ...

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Lee W. Shruben
Communications of the ACM April 1981
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James T. Kajiya
ACM Transactions on Graphics (TOG) July 1983
Volume 2 Issue 3

27 Visualizing multivalued data from 2D incompressible flows using concepts from painting   77%
R. M. Kirby , H. Marmanis , D. H. Laidlaw
Proceedings of the conference on Visualization '99: celebrating ten years October 1999
We present a new visualization method for 2d flows which allows us to combine multiple data values in an image for simultaneous viewing. We utilize concepts from oil painting, art, and design as introduced in [1] to examine problems within fluid mechanics. We use a combination of discrete and continuous visual elements arranged in multiple layers to visually represent the data. The representations are inspired by the brush strokes artists apply in layers to create an oil painting. We displa ...

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Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques August 1997

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ACM Computing Surveys (CSUR) September 1997
Volume 29 Issue 3
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Rahmat S. Hyder , David A. Wood
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S. Finger , M. Terk , E. Subrahamanian , C. Kasabach , F. Prinz , D. P. Siewiorek , A. Smailagic , J. Stivoric , L. Weiss
Communications of the ACM February 1996
Volume 39 Issue 2

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J. W. Erkes , K. B. Kenny , J. W. Lewis , B. D. Sarachan , M. W. Sobolewski , R. N. Sum
Communications of the ACM February 1996
Volume 39 Issue 2

38 The S/Net's Linda kernel   77%
Nicholas Carriero , David Gelernter
ACM Transactions on Computer Systems (TOCS) May 1986
Volume 4 Issue 2
Linda is a parallel programming language that differs from other parallel languages in its simplicity and in its support for distributed data structures. The S/Net is a multicomputer, designed and built at AT&T Bell Laboratories, that is based on a fast, word-parallel bus interconnect. We describe the Linda-supporting communication kernel we have implemented on the S/Net. The implementation suggests that Linda's unusual shared-memory-like communication primitives can be made to run well in ...

39 Representing monads   77%

Andrzej Filinski

Proceedings of the 21st ACM SIGPLAN-SIGACT symposium on Principles of programming languages February 1994

We show that any monad whose unit and extension operations are expressible as purely functional terms can be embedded in a call-by-value language with “composable continuations”. As part of the development, we extend Meyer and Wand's characterization of the relationship between continuation-passing and direct style to one for continuation-passing vs. general “monadic” style. We further show that the composable-continuations construct can itself be represented using o ...

40 DAIDA: an environment for evolving information systems   77%

M. Jarke , J. Mylopoulos , J. W. Schmidt , Y. Vassiliou

ACM Transactions on Information Systems (TOIS) January 1992

Volume 10 Issue 1

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

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Dick Youngblood, Staff Writer. **Star Tribune.** Minneapolis, Minn.: Apr 20, 2003. p. 8.D
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Alice Blanco. **Plastics Engineering.** Brookfield Center: Feb 2003. Vol. 59, Iss. 2; p. 83 (2 pages)
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Shijun Ni. **Journal of Injection Molding Technology.** Brookfield: Sep 2002. Vol. 6, Iss. 3; p. 177 (10 pages)

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Ruihua Han, Mahesh Gupta, David L Crouthamel. **Journal   f Injection M lding Technology.**
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Hope Molinaro. **Plastics Engineering.** Brookfield Center: Sep 2002. Vol. 58, Iss. 9; p. 54 (1 page)
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Richard D Sudduth, Ramakrishna Dugyala, James Garber, Kevin Nichols, Qin Sheng. **Journal of Injection Molding Technology.** Brookfield: Jun 2002. Vol. 6, Iss. 2; p. 120 (23 pages)
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S Hoffmann, W Michaeli. **J urnal f Injecti n Molding Techn l gy.** Brookfield: Jun 2001. Vol. 5, Iss. 2; p. 98 (7 pages)

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☐ 21. **A numerical filling simulation of injection molding using a 3D surface model**
Huamin Zhou, Yisheng Zhang, DeQun Li. **Journal of Injection Molding Technology.** Brookfield: Mar 2001. Vol. 5, Iss. 1; p. 31 (7 pages)
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☐ 26. **Moldflow Corporation and CACO Pacific Corporation Announce Cooperative Technology Agreement for Factory Floor Applications**
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Peter Mapleston. **Modern Plastics.** New York: October, 1999. Vol. 76, Iss. 10; p. 42
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☐ 31. **Armed with new products, Moldflow, C-Mold vie for front-runner status**
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Anonymous. **Mechanical Engineering.** New York: Aug 1999. Vol. 121, Iss. 8; p. 18 (1 page)
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☐ 39. **Moldflow Corporation Expands the Plastics Advisers With the Release of Mold Adviser; An Easy to Use Tool for Quick and Accurate Cae Simulation of Mold Design.**
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Qin Sheng, Fred F. Farshad, Shangyu Duan. **Engineering Computations.** Bradford: 1999. Vol. 16, Iss. 8; p. 892
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☐ 61. **Simplified three-dimensional simulation of non-isothermal filling in metal injection moulding by the finite element method**
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